

**California Department of Transportation
Stormwater Management Program**

District 4 Work Plan

Fiscal Year

2012-2013

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California Department of Transportation
Division of Environmental Analysis
Stormwater Management Program
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<http://www.dot.ca.gov/hq/env/stormwater>

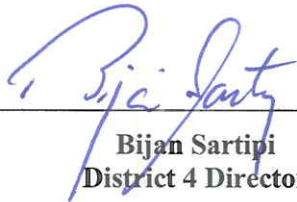
April 1, 2012



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**California Department of Transportation
District 4 Certification
District Work Plan 2012-13**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations. [40 CFR 122.22(d)]



**Bijan Sartipi
District 4 Director**

2-28-12

Date

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1 Introduction

General Information about the District Work Plan

The District Work Plans (DWPs) describe the organization of each California Department of Transportation (Caltrans) District's stormwater program and outline the planned stormwater activities for the upcoming fiscal year. They are prepared and submitted on April 1 each year. Since the DWP is District-specific, each Regional Water Quality Control Board (RWQCB or Regional Board) is provided a copy of the DWPs relevant to their jurisdiction.

This DWP presents information about District 4's water bodies, Best Management Practices (BMPs), and monitoring programs. It describes how the District will specifically implement the requirements of the Statewide Stormwater Management Plan (SWMP) during fiscal year 2012-13. Implementation activities will be conducted in accordance with the procedures presented in the SWMP.

The DWP's six chapters describe how the District plans to implement the stormwater program during the upcoming fiscal year. Chapter 1 introduces the DWP, describes its organizational structure, and identifies the key goals and commitments made by the District for the upcoming fiscal year. Chapter 2 describes the personnel with stormwater operations responsibilities in the District. In Chapter 3, the District's facilities are listed and categorized by type and location. Chapter 4 describes and identifies the locations where spills from the District's owned rights-of-way, activities, roadways or facilities can discharge directly to a drinking water reservoir or ground water recharge facility. In Chapter 5, the District's implementation activities are summarized, including projects that will be in the design and construction phases during the fiscal year, as well as the planned activities associated with municipal coordination, stormwater monitoring, and public education. Chapter 6 identifies the total maximum daily loads (TMDLs) for which the District has been named a stakeholder, and a general discussion of planned TMDL actions.

District Goals and Commitments

The current goals of District 4 include: implementing sustainable practices that provide a safe transportation system for its users and workers; efficiently delivering quality transportation projects and preserving the State's environmental resources; implementing public outreach efforts; and working with local partners to develop watershed-based solutions that are cost-effective. The District plans to accomplish this by continuing to:

- Train staff on compliance requirements in the Construction General Permit (CGP) and updated guidance available in the Storm Water Quality Handbook entitled "Project Planning & Design Guide."
- Maintain relationships with the Regional Water Quality Control Board(s) to meet our shared stormwater management goals by engaging in discussions to:
 - establish consistency with Department's statewide practices on stormwater treatment and hydromodification control requirements for projects that require Clean Water Act Section 401 Water Quality Certifications and/or Waste Discharge Requirements, and implement sustainable on-site control measures that are: safe for our workers and the public; cost-effective; and provide full and unambiguous compliance.
 - establish a clear understanding on equivalent water quality benefit to set goals for off-site stormwater treatment compliance projects when on-site control measures are determined infeasible.

- successfully implement construction site risk assessment and water pollution control measures to minimize the risk for pollutant discharges to receiving waters in compliance with the CGP, including the use of electronic filing of Project Registration Documents (PRDs) onto the State Water Resources Control Board's Stormwater Multi-Application & Report Tracking System (SMARTS).
- Coordinate with local partners to provide guidance in the planning/design phase to comply with mandates requiring incorporation of on-site stormwater treatment and hydromodification control measures, and facilitate discussions with the Regional Water Quality Control Board(s) to develop off-site watershed based solutions.
- Coordinate with the San Francisco Bay RWQCB and the Bay Area Stormwater Management Agencies Association (BASMAA) during the development of a Conceptual Work Plan to comply with the Total Maximum Daily Loads (TMDLs) developed for each water body and pollutant within District 4 boundaries. The current strategy includes identifying information gaps to establish a baseline for the pollutant loads leaving Department's right of way, which will provide a scientific basis for: prioritizing compliance options; developing cost-effective control measures; cost sharing on regional TMDL compliance projects; and establishing separate waste load allocations (WLA) where justified.
- Coordinate with Water Board(s) staff to address sediment sources along highways that discharge to sediment impaired waterbodies.
- Hold quarterly National Pollutant Discharge Elimination System (NPDES) coordination meetings to increase communication, collaboration and coordination with District 4's Divisions of Maintenance, Construction, Design, Landscape Architecture, Right-of-Way, Hydraulics and Permits to implement the new requirements in the CGP and comply with Department's Storm Water Management Plan.

2 District Personnel and Responsibilities

Chapter 2 of the DWP describes positions, addresses, and telephone numbers of personnel with responsibilities for stormwater operations within the District. This chapter also identifies positions having signatory authority for various notifications or documents required for submittal by a District (e.g., notice of construction or NOC).

Water Quality Program Manager

The District Water Quality Program Manager (Manager) is the Office Chief of the Office of Water Quality and Mitigation. He supervises the Stormwater Coordination Branch, the Water Pollution Control Branch, the Water Quality Permits Branch, and the Erosion Control Branch. The Manager is in charge of all stormwater activities in the District. The Manager is also accountable for establishing an effective water quality/stormwater program and maintaining a liaison with Headquarters and District Program Managers (Division Chiefs) for the purpose of effective communication, collaboration, and coordination of stormwater activities.

The responsibilities of the Manager are as follows:

- Direct District operations regarding water quality and stormwater.
- Align District efforts to interpret, implement, and comply with the NPDES permit.
- Be the ultimate signatory authority in the District for all compliance documents and commitments regarding water quality and stormwater management.
- Work as the primary liaison on water quality and waste discharge issues between the District and Headquarters, the SWRCB, the RWQCBs, the U.S. Environmental Protection Agency, and other agencies.
- Arbitrate disputes and disagreements on policies, activities, assignments, and responsibilities regarding stormwater issues.
- Develop and establish the District's Public Education Program.

District Stormwater Coordinator

The District Stormwater Coordinator (DSWC) is the Branch Chief of the Stormwater Coordination Branch. Under the general direction of the Manager, the DSWC is responsible for developing District stormwater quality policies and guidance, and daily management of the District Stormwater Program. The DSWC is responsible for identifying issues and developing recommendations related to stormwater quality, regulated wastes, and other environmental issues that affect the District. The DSWC supervises staff, which supports and executes activities of the DSWC and the Stormwater Program. The specific stormwater tasks for which the DSWC is responsible include the following:

- Provide guidance and direction for the preparation, development, and implementation of a comprehensive District Stormwater Program.
- Oversee activities related to notification procedures for reuse of soil containing lead in accordance with variances issued by the Department of Toxic Substances Control (DTSC).
- Serves as the focal point on stormwater management issues between the Districts (SWATs) identified in the SWMP and various Public Education activities within the District.
- Monitor and evaluate the stormwater activities and procedures of municipalities, developers, and other agencies that encroach upon or administer projects within Caltrans' ROW.

- Establish impartial and equitable decisions that benefit Caltrans in attaining the objectives of the Stormwater Program.
- Determine and evaluate stormwater impacts during California Environmental Quality Act and/or National Environmental Policy Act (CEQA/NEPA) screening.
- Prepare or provide aid and recommendation in the preparation of the contract Plans, Specifications, and Estimates (PS&E) for inclusion of permanent control and treatment measures to improve or minimize water quality impacts.
- Propose, develop, and manage stormwater monitoring programs, in coordination with the Headquarters Environmental Program.
- Prepare and submit DWP and Annual Reports.
- Assist in development of training programs.
- Provide stormwater quality language to be included in the Project Report.

Water Pollution Control Coordinator

The Water Pollution Control Coordinator (WPCC) is the Branch Chief of the Water Pollution Control Branch. The WPCC is responsible for working closely with the DSWC and the Erosion Control Coordinator (ECC) to incorporate water pollution control recommendations into the planning, design, and construction of all projects in the District. The specific stormwater tasks for which the WPCC Coordinator is responsible include the following:

- Determine and evaluate stormwater impacts during CEQA/NEPA screening.
- Provide guidance in determination and evaluation of temporary impacts of construction activities upon stormwater during construction.
- Identify costs related to water pollution control, non-stormwater discharges, waste management, and de-watering activities on programming documents.
- Provides technical support for geotechnical and de-watering activities - including de-watering cost estimates.
- Develop new specifications, details, and guidance materials related to non-stormwater discharges and waste management.
- Prepare and/or review the contract PS&E to address temporary controls for non-stormwater discharges and waste management activities as well as development of Stormwater Pollution Prevention Plans (SWPPPs).
- Assist the District Encroachment Permits Branch in evaluating water quality impacts and requirements of encroachment permit applications.
- Participate in the Design SWAT identified in the SWMP.
- Develops and prepares contract documents related to water pollution control, stormwater pollution prevention plans, non-storm water discharges, de-watering, and waste management. Language developed is included in the Project's Contract Special Provisions.
- Provides water quality language to be included in the Project Report.

Water Quality Permits Coordinator

The Water Quality Permits (WQP) Coordinator is the Branch Chief for the Water Quality Permits Branch. The WQP Coordinator is responsible for providing technical assistance to guide staff in resolving water quality permitting issues and concerns related to project development design, construction and maintenance with respect to Caltrans compliance with the statewide NPDES permit and project-specific permits from the RWQCBs and/or other resource agencies. The WQP Coordinator provides functional unit support to Project Managers, Project Engineers and other District and HQ functional units and Divisions for all phases of project activities, by providing support in obtaining project-specific permits from the RWQCB(s), and assisting with responding to enforcement actions from the RWQCBs.

The specific stormwater tasks for which the WQP Coordinator is responsible include but are not limited to the following:

- Prepares and coordinates CWA Section 401 Water Quality Certification and/or Waste Discharge Requirements (WDRs). Oversees the permit application process for securing the 401 Water Quality Certification, Waste Discharge Requirements and NPDES Permits from the RWQCB for all roadway projects.
- Act as the primary contact for the interpretation and implementation of Caltrans' Statewide NPDES Permit.
- Act as the focal contact to the RWQCB for any permitting requirements for impacts to waters of the U.S. and/or waters of the state due to District 4 construction activities.
- Provides the RWQCB with Notification of Construction (NOC) for the start of all District 4 SWPPP Projects and provides Notification of Completion of Construction (NOCC) for all NPDES permit projects.
- Coordinate with Caltrans' Statewide Water Quality Program members including Maintenance, Construction, Encroachment Permits, Hydraulics, Environmental Engineering, Geotechnical Engineering, and Right-of-Way.
- Provides water quality permit language to be included in the Project Report.
- Coordinate public education outreach.
- Submit data for the Annual Report that summarizes the activities of District 4 and ensures that the conditions of the stormwater permit are met.
- Prepare the DWP annually to address future District goals and commitments in compliance with Caltrans' SWMP.

Erosion Control Coordinator

The Erosion Control and Mitigation Branch facilitates the incorporation of erosion and sediment control recommendations into the planning, design, and construction of all projects in the District. The Erosion Control and Mitigation Branch Chief is the Erosion Control Coordinator (ECC) and responsible for working closely with the WPCC and the DSWC to incorporate erosion control recommendations into the planning, design, and construction of all projects in the District. The ECC also provides field support to Construction, Maintenance, and Permits when requested. The specific stormwater tasks for which the ECC is responsible include the following:

- Determine and evaluate stormwater impacts during CEQA/NEPA screening.
- Evaluate and recommend the vegetation-type for the permanent control and treatment control measures for addressing project stormwater impacts.

- Identify costs related to water pollution and erosion control on programming documents.
- Develop new specifications, details, and guidance materials related to erosion and sediment control.
- Prepare and/or review the contract PS&E for inclusion of permanent and/or temporary erosion and sediment control measures to improve or minimize water quality impacts on projects.
- Ensure that reuse locations of soil-containing lead in accordance with variances issued by DTSC are not subject to erosion and stabilized as part of project design.
- Assist the District Encroachment Permits Branch in evaluating erosion control requirements of encroachment permit applications.
- Conduct studies to improve water quality objectives on highway planting projects.
- Assist in development of training programs, especially that attributed to Erosion Control staff.
- Participate in the Design SWAT identified in the SWMP.
- Provides Erosion Control language to be included in the Water Quality section of the Project Report.

The ECC acts as the liaison with the Headquarters Office of Landscape Architecture to develop, submit, review, and gain approval for all specifications and details related to erosion and sediment control. Furthermore, the ECC is the contact for the Headquarters Design Program in the approval or concurrence with specifications related to water pollution control related to erosion and sediment control.

Construction Stormwater Coordinator

Under the general direction of the Division of Construction (Construction), the Construction Stormwater Coordinator (CSWC) is responsible for developing stormwater quality policies and guidance, and daily management of Construction's stormwater quality program. The CSWC is responsible for the proper implementation of the SWMP and the DWP within Construction. The CSWC supervises staff, which implements the program requirements in the field during the construction phase. The specific tasks for which the CSWC will be responsible include:

- Work as the primary point of contact for stormwater issues during the construction phase.
- Develop and administer stormwater training for Construction staff.
- Track critical compliance milestones that occur before and during the course of construction.
- Conduct final project closeout inspections. The CSWC submits final project closeout inspection results to the WQPC, which provides RWQCBs with NOCC for SWPPP projects.
- Submit approved SWPPPs or other reports to the RWQCBs as requested.
- Review SWPPPs and provide oversight inspections for SWPPP projects.
- Prepare and submit Illicit Connection/Discharge reports for Construction.
- Participate on the Construction SWAT identified in the SWMP and represent Construction in the Stormwater Management Committee (SWMC) meetings.
- Provide data for the Annual Report.
- Provides WQPC with Final SWPPP Close-Out report for NOCC documentation.

The CSWC ensures that all enforcement actions or corrections requested by the RWQCBs are promptly implemented, and documented. The CSWC serves as the primary conduit for information during the

construction phase for the RWQCBs, Headquarters Construction, and construction field staff. The CSWC also supports the design related functional units in determining specific project needs and evaluation of water pollution control measures in the field.

Maintenance Coordinator

The Maintenance Coordinator is responsible for communicating with the District Division Chiefs of Maintenance and the Maintenance Operation Team (MOT) regarding the proper implementation of maintenance related sections of the SWMP and the DWP. The Maintenance Coordinator reports all stormwater related maintenance activities to the SWMC. The specific stormwater tasks for which the Maintenance Coordinator is responsible include:

- Oversee maintenance activities to ensure compliance with the Permit and the SWMP.
- Review, monitor, and evaluate BMP implementation and effectiveness for Maintenance activities.
- Coordinate stormwater training for District Maintenance staff.
- Oversee Vegetation Control Plan (VCP) compliance and prepare VCPS.
- Conduct Facility Pollution Prevention Plan (FPPP) inspections and prepare FPPPS.
- Participate on the Maintenance SWAT identified in the SWMP and represent Maintenance in the SWMC Meetings.
- Review SWDRs and other project reports for SWPPP projects to ensure compliance with Maintenance requirement as well as ensure maintainability of stormwater control measures upon completion of construction.
- Serve as the primary contact for Maintenance related activities with regulatory agencies.
- Provide data for the Annual Report.

The Maintenance Coordinator is chairperson of the MOT that meets routinely to discuss water quality issues, update the Maintenance portion of the DWP, and compile information for the Annual Reports as well as the SWMP. The Maintenance Coordinator also serves as the conduit for information between the SWMC and maintenance offices, as well as the Headquarters Maintenance Program (especially the Maintenance SWAT identified in the SWMP).

Right-of-Way Representative

The Right-of-Way (ROW) Representative is a member of the SWMC and is responsible for the following:

- Attend all SWMC meetings and report any ROW stormwater activities.
- Ensure that stormwater training is available to ROW Agents tasked with property inspection responsibilities.
- Ensure that regular property inspections include stormwater inspections.
- Maintain documentation of the inspection findings and corrective actions.
- Prepare a summary of completed stormwater property inspections for use in the Annual Report.
- Disseminate information and answer questions regarding Caltrans' stormwater policy to all ROW staff involved in stormwater inspections.
- Notify the SWMC and/or the DNC of discharges or situations that appear to be in gross violation of the Permit, the SWMP, and the DWP.

- Report instances where ROW may conduct construction activities that require the development of a SWPPP and related notification.
- Provide ROW information for water quality permit applications.

Engineering Services (Hydraulics) Representative

The Engineering Services (Hydraulics) Coordinator is a member of the SWMC responsible for providing information on permanent control measures, except those related to erosion control, which are being planned, designed, and implemented in projects. The Hydraulics Coordinator is responsible for providing input and review of the Annual Report and DWPs. The Hydraulics Coordinator ensures that the management and staff of the Hydraulics Group are aware of the DWP, various water pollution control efforts, and commitments for minimizing or preventing pollutants from being present in discharges. The Hydraulics Coordinator ensures that the design processes used by the Hydraulics Group are consistent with the DWP and the SWMP, especially those processes related to the evaluation, selection, and design of permanent control and treatment control measures.

Public Affairs Representative

The Public Affairs Coordinator is a member of the SWMC responsible for maintaining an effective public information program as specified in this DWP and any elements of the SWMP that are attributed to the District. The Public Affairs Coordinator is directly responsible for the following:

- Ensures publication of stormwater articles within District publications (e.g., newsletters).
- Provides incident information for spill reports, water quality permit applications, and other reports/notifications submitted to various agencies.
- Distributes the District's stormwater pamphlets.
- Develops and distributes public service announcements regarding stormwater.
- Ensures that stormwater information is available at miscellaneous events, such as county fairs and fleet week, for which Caltrans might be a participant.

Encroachment Permits Coordinator

The Encroachment Permits Coordinator, a member of the SWMC, is responsible for ensuring that the District Office of Permits complies with the Permit, the SWMP, and the DWP. The Office of Permits is responsible for issuing Encroachment Permits to local agencies, utility companies, and others (i.e., film production companies, marathon sponsors, etc) that encroach into Caltrans' ROW for conducting construction, maintenance, or other activities necessary for their organization. The Encroachment Permits Coordinator ensures that all the activities by those permittees encroaching into Caltrans' ROW comply with the Project's Encroachment Permit, in a manner that is consistent with that required of Maintenance, Construction, and Design. The Encroachment Permit Branch also reviews the SWPPP and Water Pollution Control Plan (WPCP) for encroachment permit projects. The Encroachment Permits Coordinator is directly responsible for the following:

- Provide guidance on preparing Stormwater Data Reports (SWDRs) and Water Quality Study Reports (WQSRs), as well as review and approve SWDRs and WQSRs.
- Ensure the accuracy and adequacy of the stormwater workload allocations for each fiscal year and coordinate and track resource distributions, workload, and projects within the District.
- Assist the District's functional units in prioritizing, monitoring, tracking, and evaluating stormwater resources, activities, and operations.

- Implement a quality assurance and quality control (QA/QC) program for monitoring the activities of the District functional units, in order to ensure that the conditions of the Permit, the SWMP, and the DWP are implemented properly.
- Provides the guidance and direction necessary to develop strategies for addressing regulations and mandates on stormwater and waste discharges set forth by federal, state, and local regulatory agencies.
- Work as leader and chairperson of the District Stormwater Management Committee (SWMC) as well as represent the District at the Stormwater Advisory Team meetings.

Table 2-1: District 4 Stormwater Personnel and Responsibilities

Staff Name	Title	Phone No.	E-mail	Responsibility
Hardeep S. Takhar	District Water Quality Program Manager	(510) 286-7182	hardeep_s_takhar@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Norman Gonsalves	District Stormwater Coordinator	(510) 286-5930	norman_gonsalves@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Kamran Nakhjiri	Water Pollution Control Coordinator	(510) 286-5664	kamran_nakhjiri@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Cyrus Vafai	Water Quality Permits Coordinator	(510) 286-5585	cyrus_vafai@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
David Yam	Erosion Control Coordinator	(510) 286-5662	david_yam@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Dragomir Bogdanic	District Construction Stormwater Coordinator	(510) 622-0716	dragomir_bogdanic@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Arnold Joe	Maintenance Coordinator	(510) 286-4421	arnold_joe@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Nancy Bocanegra	Right-of-Way Representative	(510) 286-5420	nancy_bocanegra@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Carlos Mora	Hydraulics Coordinator	(510) 286-4869	carlos_mora@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.

Staff Name	Title	Phone No.	E-mail	Responsibility
Traci Ruth	Public Affairs Coordinator	(510) 286-6120	traci_ruth@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.
Betsy A. Barsamian	Encroachment Permits Coordinator	(510) 286-4420	betsy_barsamian@dot.ca.gov	For a complete list of responsibilities, please refer to Section 2: "District Personnel and Responsibilities" found immediately above.

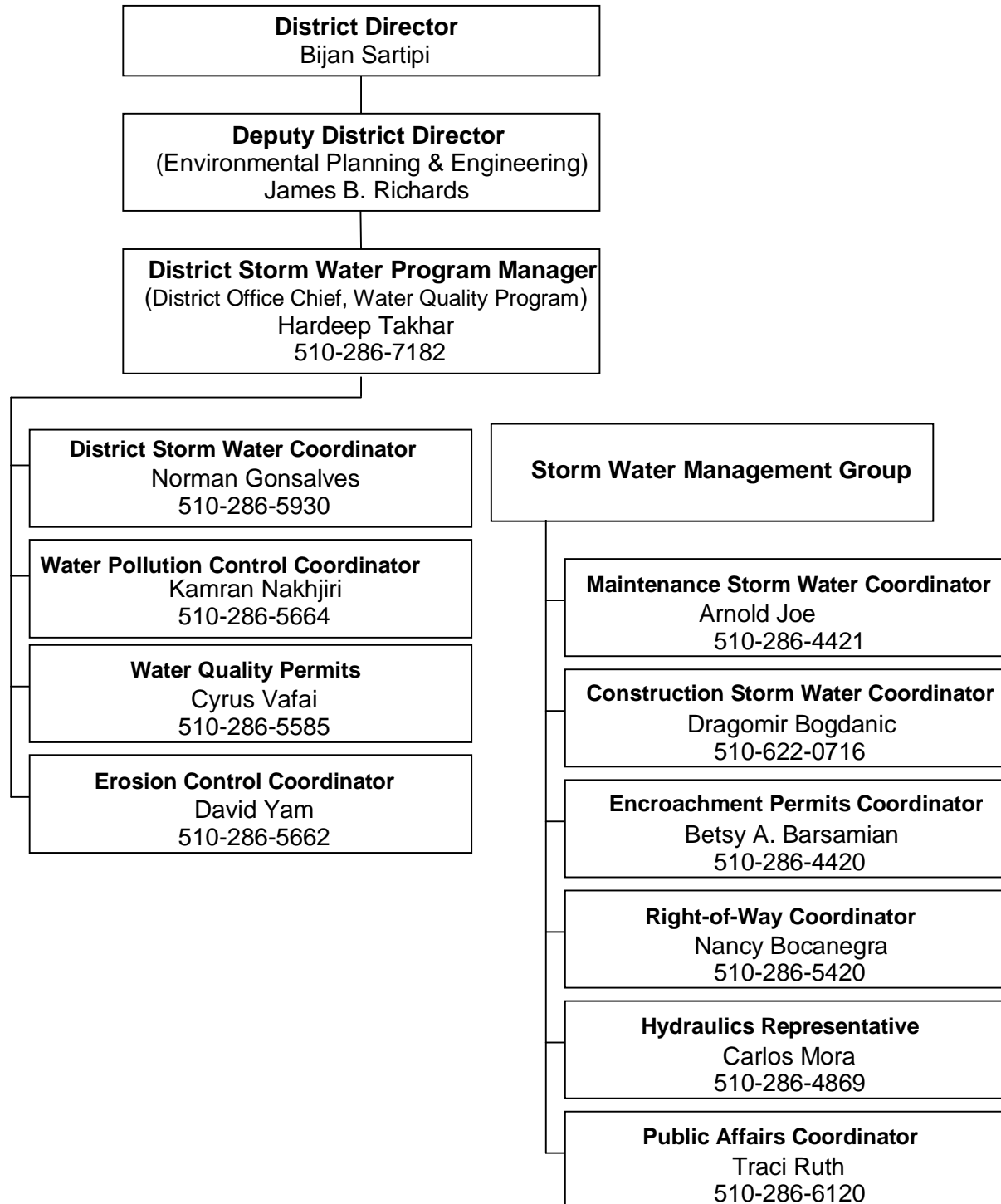
Table 2-2 lists individuals authorized to sign the documents, reports, and other information submitted by the District to either the SWRCB or the RWQCB(s). These individuals/positions may delegate authorization to their staff to sign various documents and reports required for implementation of the Stormwater Program. It also includes delegation of signatory authority for key Permit/SWMP required documents

Table 2-2: District 4 Signatory Authority for Key Documents

Position or Individual	Phone No.	E-mail	Documents Authorized for Signatures
Bijan Sartipi	(510) 286-5900	bijan_sartipi@dot.ca.gov	All District Documents
Hardeep S. Takhar	(510) 286-7182	hardeep_s_takhar@dot.ca.gov	All District Documents except District Work Plan
Norman Gonsalves	(510) 286-5930	norman_gonsalves@dot.ca.gov	All District Documents except District Work Plan
Dragomir Bogdanic	(510) 622-0716	dragomir_bogdanic@dot.ca.gov	SWPPP, Notice of Construction (NOC), Notice of Construction Completion (NCC), Notice and Report of Non-Compliance, Discharge or threat of Discharge Notification
Maintenance Stormwater Coordinators, Managers, Office Chief, and Hazardous Materials Manager	(510) 286-5215	arnold_joe@dot.ca.gov	Notice and Report of Non-Compliance, Discharge or Threat of Discharge Notification, Report of Illicit Connection/Discharge (IC/ID)
Encroachment Permits Coordinator	(510) 286-4420	betsy_barsamian@dot.ca.gov	SWPPPs, NOC/NCC, Notice and Report of Non-Compliance, Discharge or Threat of Discharge Notification, and Report of IC/ID
Water Pollution Control Coordinator/Environmental Engineering Office Chief	(510) 286-5664	kamran_nakhjiri@dot.ca.gov	Notice of Soil Reuse with Aerially Deposited Lead (ADL)
Resident Engineers	Various – project dependent	various – project dependent	SWPPPs, Notice and Report of Non-Compliance, Discharge or Threat of Discharge Notification, NOC/NCC
Right-of-Way Representative	(510) 286-5420	nancy_bocanegra@dot.ca.gov	SWPPPs, NOC/NCC, Notice and Report of Non-Compliance, Discharge or Threat of Discharge Notification, and Report of Illicit Connection/Discharge
Facility Supervisor	(510) 286-5215	arnold_joe@dot.ca.gov	Facility Pollution Prevention Plans (FPPP)

Figure 2-1 shows an organizational chart describing key persons with responsibilities for stormwater operations within the District.

Figure 2-1: District 4 Organizational Chart



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3 District Facilities and Water Bodies

Chapter 3 of the DWP identifies crew and address information about Caltrans maintenance stations, vista points, commercial vehicle enforcement areas, roadside rest areas, park and ride facilities, toll road and bridge plazas, equipment shops, and other Caltrans facilities. For security reasons, the table and map identifying these facilities is not available to the public to comply with the Department of Homeland Security Policy. For more information, contact Caltrans' Office of Emergency Management or Division of Environmental Analysis.

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4 Drinking Water Reservoirs and Recharge Facilities

Chapter 4 of the DWP describes and identifies the locations where spills from District-owned rights-of-way, activities, roadways, or facilities can discharge directly to a municipal or domestic water supply reservoir or a ground water recharge (percolation) facility. Projects that potentially drain to these areas consider project features that enhance spill response.

A list of drinking water reservoirs and recharge facilities within District 4 is presented in Table 4-1. Drinking water reservoirs and recharge facilities are areas such as locations where spills from District-owned ROWs, activities, or facilities can discharge directly to municipal or domestic water supply reservoirs or ground water percolation facilities.

To generate the list of municipal, domestic water supply reservoirs, and ground water percolation facilities, the District first contacted known public and private water supply providers. From the information received, the District determined which facilities were susceptible to a direct spill from a District activity or facility. This determination was based on proximity between the water body and the District's facility, use characteristics of the facility, and the probable spill response time.

Table 4-1: District 4 Drinking Water Reservoirs and Recharge Facilities

Road Segment/ Facility	County	Regional Board	Drinking Water Reservoir or Recharge Facility Area	Description	Comments
Route 128	Napa	2	Lake Hennessey	Lake Hennessey is used as a water supply.	Light truck traffic and slower speeds due to the alignment and grade of this section of Route 128 reduces the likelihood of hazardous spills.
Route 35	San Francisco	2	Lake Merced	Adjacent to Route 35 in the City of San Francisco, Lake Merced is primarily used as a recreational area. It also serves as an emergency source for drinking water.	Stormwater from Route 35 currently discharges directly to the lake via a series of down drains.
Route 280	San Mateo	2	Lower Crystal Springs Reservoir	Route 280 in San Mateo county crosses through a watershed that drains to both upper and lower Crystal Springs Reservoirs.	In order to preserve the quality of the reservoirs, it was necessary to develop a system that allows clean, natural runoff to drain to the reservoirs while freeway runoff was directed into a series of seven turbidity ponds.
Route 92	San Mateo	2	Upper Crystal Springs Reservoir	Route 92 bisects the Upper Crystal Springs Reservoir from the Lower one. These reservoirs supply the San Francisco Water Department with water for domestic use.	A proposed safety project to widen and realign Route 92 in San Mateo County from Crystal Springs Reservoir to Route 35 will incorporate spill prevention and containment techniques. This Route acts as the main access to coastal communities and, as such, experiences heavy truck traffic.

Road Segment/ Facility	County	Regional Board	Drinking Water Reservoir or Recharge Facility Area	Description	Comments
Route 24	Contra Costa	2	San Pablo Reservoir	San Pablo Reservoir in the East Bay lies between Orinda and El Sobrante off San Pablo Dam Road. The reservoir is located at an elevation of 314 feet in the Berkeley hills. It has 860 surface acres. At San Pablo, reservoir visitors can fish, picnic, hike, or just relax in a beautiful setting.	Runoff from Route 24 in Orinda discharges directly to San Pablo Creek, which empties into San Pablo Reservoir. The light truck traffic and relatively straight horizontal alignment at this location reduces the likelihood of spills.
Route 24	Alameda	2	Lake Temescal	Lake Temescal lies adjacent to Route 24 in the City of Oakland. Although the lake primarily serves as a recreational area, it may be used as an emergency water supply.	No comments
SR 17, PM 18.0/18.6	Santa Clara	2	Lexington Reservoir	Reservoir is municipal water supply source for approximately 10,000 residents in the towns of Saratoga and Los Gatos. Route 17 parallels Lexington Reservoir, which is located approximately three miles south of the town of Los Gatos.	The lack of industrial facilities along this section of the highway as well as the constrained horizontal and vertical geometry of the highway discourages heavy truck traffic. Trucks using Route 17 are most likely serving the nearby Santa Cruz and San Lorenzo Valley areas.
Routes 17 and 85	Santa Clara	2	Percolation Facilities	Several Santa Clara Valley Water District (SCVWD) percolation ponds lie along Los Gatos Creek adjacent to Route 17 and the Route 17/85 interchange in Campbell. The water source for most of these ponds is Los Gatos Creek.	While runoff from the Route 17/85 interchange does not discharge to the nearby ponds, SCVWD is concerned that off-roadway accidents in which vehicles or trucks run down embankments could occur, thereby jeopardizing the ponds.
Route 101	Santa Clara	3	Madrone Channel	This channel, near Morgan Hill, parallels Route 101 from Half Road to Llagas Creek, providing necessary flows for SCVWD groundwater recharge facilities. The source of flow within this channel is Anderson Reservoir via the Coyote-Madrone Pipeline.	No comments
Route 128	Napa	5	Lake Berryessa	Lake Berryessa is used as a domestic water supply.	The tight curves and steep grades along this section of Route 128 deter truck traffic resulting in a reduced exposure to hazardous spills.

5 Implementation

Chapter 5 of the DWP identifies the specific projects in which work is planned during the fiscal year within the Project Approval/Environmental Document (PA/ED), Plans, Specifications, and Estimates (PS&E), and Construction development phases. The anticipated schedule of construction and maintenance activities is subject to change. These projects are limited to those meeting any of the following criteria:

1. Equal to or greater than 1 acre of disturbed land area, including area of a new bridge
2. Adjacent to a Drinking Water or Ground Water Recharge Facility, as described in chapter 4 of the DWP
3. A supplemental environmental project
4. Additional projects per agreement between the District and local RWQCB

Projects listed in Table 5-1 include (where applicable):

1. Location (county, route and post mile limits)
2. Project number (expense authorization)
3. Basic Project Description
4. Disturbed land area
5. Presence of receiving waters within or adjacent to project limits, with special designation for 303(d) listed water bodies
6. Drinking Water Reservoir or Ground Water Recharge Facility within or adjacent to project (as identified in chapter 4 of the DWP)
7. Projected milestone dates of PA/ED, PS&E, begin Construction, and end Construction
8. Treatment control status
9. Dredge and fill (CWA-401) activities within the project

The updated lists of projects meeting these criteria will also be provided to the RWQCB semi-annually on April 1st and October 1st. Furthermore, this chapter identifies planned maintenance activities involving water bodies that may require action by the RWQCB under Section 401 of the CWA. Information associated with the activities includes location, affected water body, and area of disturbance. In addition, this chapter also describes the planned activities associated with municipal coordination, stormwater monitoring, and public education within the District; however, these activities may be conducted jointly with other Districts and HQ. Consequently, information contained in a DWP may be repeated in another DWP.

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Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
1	29492	ALA	24	3.3	5.5	2	Ramp Realignment	Temescal Creek, Lake Temescal	Y	4.8	BS, 1	1-Aug-07	1-Aug-08	1-Aug-09	1-Feb-14
2	0120M	ALA	80	1.0	1.7	2	San Francisco-Oakland Bay Bridge Seismic Safety	San Francisco Bay-Central (303d)	Y	13.1	BS, 2 D, 3	11-Jul-01	1-Jun-09	1-Aug-11	1-Nov-14
3	160300	ALA	84	13	13.6	2	Remove and replace Alameda Creek Bridge	Alameda Creek	Y	2.14	Bio-filtration swales and Storage pipe	4/1/2011	9/1/2012	6/1/2015	10/1/2015
4	174411	ALA	84	19.48	21.4	2	Safety Improvement project, provides standard shoulders, sight distance and vertical clearance, as well as a left-turn lane and median soft barrier	Alameda Creek	N	3.69	Storage Pipes	6/30/2006	6/22/2010	3/1/2011	12/1/2012

¹ Supplemental Environmental Projects designated as "SEP."

² Projects adjacent to Drinking Water Reservoirs or Ground Water Recharge Facilities are noted (DW) and (GW), respectively.

³ Water bodies with designation for 303(d) designation are noted in parentheses.

⁴ If yes, a 401 permit will be required for this project. NA = Not Available at this time.

⁵ Treatment Control Status identified by: device type/number of devices, exempt ("E"), or under consideration ("C"). See Treatment Control Status Legend below for device type abbreviations.

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
5	16030	ALA	84	13.3	13.4	2	Bridge Replacement	Alameda Creek (303d)	Y	2.8	C	1-Oct-10	1-Jan-12	1-Jul-12	1-Jul-13
6	2A330	ALA	84	13.6	18.0	2	Improve Sight Distance, Upgrade Shoulders and Provide Curve Correction	Alameda Creek (303d), Arroyo de la Laguna (303d)	Y	9.5	BS, 26	7/12/2010	7/15/2011	4/1/2012	6/1/2014
7	29082	ALA	580	8.3	21.4	2	Highway Widening, West Bound HOV Lane Project	Arroyo Las Positas (303d), Arroyo Seco, Cottonwood Creek, Collier Canyon Creek, Cayetano Creek, Chabot Canal, Arroyo Mocho (303d), Alamo Canal	N	44.2	BS, 39 D, 6 ID, 1	26-Jan-10	TBD	1-Aug-11	1-Oct-13
8	2490A	ALA	580	29.4	31.4	2	Replacement Highway Planting	San Francisco Bay (303d)	N	17.5	E	25-Jun-04	26-Feb-10	1-Jul-10	1-Oct-13
9	4A070	ALA	580	4.9	8.2	2	Widening	Arroyo Las Positas (303d)	Y	21.2	C	31-Jan-10	1-Mar-11	1-May-12	30-Nov-14
10	4A160	ALA	580	2.3	6.1	5 & 2	Truck By-Pass Lane	None	NA	10.1	C	1-Jun-10	1-Dec-11	1-Aug-12	30-Nov-13

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
11	3A920	ALA	880	22.0	25.5	2	Southbound High Occupancy Vehicle Lane	San Lorenzo Creek (303d), San Leandro Creek (303d), San Francisco Bay-Lower (303d)	Y	6.3	C	1-Nov-09	1-May-11	1-Jun-12	1-Nov-14
12	29491	ALA & CC	24	5.1 & 0.0	6.2 & 1.7	2	Caldecott Tunnel Fourth Bore	Temescal Creek, Lake Temescal	Y	21.0	BS, 1	1-Aug-07	1-Aug-08	1-Aug-09	1-Feb-14
13	0A610	CC	680	15.6	18.7	2	High Occupancy Vehicle Lane	Pine Creek (303d), Walnut Creek (303d), Suisun Bay (303d)	NA	3.5	C	1-Nov-09	1-Dec-10	1-Sep-11	1-Sep-13
14	1A521	CC/SAC	160	0.4/0.0	1.3/2.7	5	Retrofit Antioch Bridge	San Joaquin River (303d)	Y	6.5	E	1-Jul-09	3-Aug-09	1-Jun-10	1-Jun-13
15	3S562	MRN	1	9.1	17.5	2	Storm Damage	Pacific Ocean	Y	2.2	E	26-Feb-09	1-Oct-11	10-Jun-12	10-Jul-12
16	26407	MRN	101	R23.2	27.1	2	MSN B1	Petaluma River (303d)	Y	40	BS	NA	FY 11/12	1-Jun-12	1-Dec-14
17	26409	MRN & SON	101	R27.0, R0.0	R27.6, R1.8	2	MSN B3	San Antonio Creek (303d)	Y	TBD	BS	NA	FY 11/12	TBD	TBD
18	28120	NAP	221	0.0	1.6	2	Construct Southbound Flyover from Route 221 to Route 29/12	Soskol Creek	Y	10.0	BS, 4 D, 1	1-Mar-10	1-Aug-13	16-May-14	5-Jun-19

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
19	2A110	NAP	121	20.2	20.4	5	Replace Bridge – Scour Mitigation	Capell Creek	Y	2.6	C	1-Oct-10	1-Feb-12	1-Sep-12	1-Apr-14
20	25940	NAP	29	41.0	45.7	2	Roadway Rehabilitation	Napa River (303d)	Y	6.9	C	29-Jun-07	1-Sep-11	1-Aug-11	1-Aug-16
21	2A430	SCL	9	2.5	7.0	2	Widen Lanes and Shoulders	Saratoga Creek (303d), Calabazas Creek (303d)	N	1.6	E	1-Feb-10	15-Jun-11	1-Oct-13	1-Oct-14
22	2A250	SCL	152	0.0	6.1	3	Improve Sight Distance, Upgrade Shoulders and Minor Realignment	Bodfish Creek, Uvas Creek	Y	2.5	C	15-Jan-10	19-Jan-11	13-Sep-11	5-Mar-13
23	2A440	SCL	152	16.2	19.5	3	Safety Improvement	Pajaro River (303d)	Y	10.5	E	1-Jul-09	3-Nov-10	1-Jan-11	30-Mar-13
24	2A440	SCL	152	16.2	R19.6	3	Safety Improvement	San Felipe Lake, Pajaro River (303d)	N	6.5	BS, 8	30-Mar-10	16-Feb-11	11/1/2011	25-Jul-13
25	29830	SCL	101	4.4	8.7	2	HOV Lane	Coyote Creek (303d), Lower Penitencia Creek	N	47	BS, 5 D, 2	26-May-09	28-Dec-10	1-Jun-11	31-Jul-13
26	3A160	SCL	101	0.0	2.3	3	Roadway Widening	San Benito River (303d), Pajaro River (303d)	Y	432	BS, 23	1-Nov-10	1-Aug-12	31-Jan-13	3-Dec-14

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
27	4876A	SCL	101	39.3	41	2	Landscaping Work	Coyote Creek (303d), Guadalupe River (303d), San Tomas Aquinas Creek	N	3.2	E	1-Aug-07	15-Apr-10	15-Dec-10	15-Mar-14
28	4A330	SCL	101	48.6	52.2	2	Auxiliary Lanes Project	Matadero Creek (303d), Permanente Creek (303d), Adobe Creek	Y	58	BS, 6	31-Jul-09	28-Feb-11	15-Aug-11	19-Sep-13
29	2A260	SCL	152	12.6	13.0	3	Realignment & Signalization	Johnson Creek, Pajaro River (303d)	Y	4.3	BS, 1	4-May-09	1-Nov-10	8-Nov-11	7-Nov-12
30	44560	SCL	280/880	Various	Various	2	Interchange Improvement	Los Gatos Creek (303d), San Tomas Aquinas Creek	Y	15.0	C	1-Jun-09	1-Feb-11	1-May-11	1-May-14

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
31	4A790	SCL	85,101	Various	Various	2	Express Lane (DW)	Alamitos Creek (303d), Coyote Creek (303d), Guadalupe River (303d), Los Gatos Creek (303d), Stevens Creek (303d), Saratoga Creek (303d), San Francisco Bay - South (303d)	NA	61	C	12-Jul-12	28-Feb-13	2-Jul-13	3-Jul-14
32	0120T	SF	80	7.8	8.2	2	Yerba Buena Island Transition Structures Contract No. 2	San Francisco Bay-Central (303d)	Y	3.5	BS, 2 D, 3	1-Jul-01	31-Mar-11	1-May-12	1-Nov-14
33	25460	SM	1	42.0	43.2	2	Widen for Operational Improvements	Calera Creek, Pacific Ocean at Rockaway Beach (303d)	Y	3.5	C	1-Jul-10	1-Jul-11	16-Apr-12	5-Mar-13

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
34	26560	SM	1	40.6	40.8	2	Replace 2-Lane Bridge	San Pedro Creek (303d), Pacific Ocean at Pacifica Beach (303d)	NA	1.5	BS, 6	1-Mar-10	1-Apr-11	1-Jun-11	4-Aug-12
35	23563	SM	101	0.0	3.6	2	Auxiliary Lane	San Francisquito Creek (303d)	N	8.4	BS, 19	24-Nov-10	1-Feb-12	15-Jul-12	1-Oct-13
36	23564	SM & SCL	101	52.2 & 0.0	52.6 & 0.9	2	Auxiliary Lanes in Both Directions of US 101	San Francisquito Creek (303d)	N	3.8	BS, 5	1-Oct-08	2-May-11	1-Mar-12	1-Nov-13
37	23561	SM/SCL	101	0.0/5.23	3.6/5.26	2	Highway Widening	San Francisquito Creek (303d), Ravenswood Triangular	N	26.7	C	1-Oct-08	1-Aug-10	1-Apr-11	1-Nov-13
38	0A534	SOL	12 & 80	2.5 & 11.3	12.9	2	Interchange Construction	Jameson Canyon Creek, Green Valley Creek, Suisun Marsh Wetlands (303d)	Y	35.1	BS	NA	1-Mar-11	1-Jul-12	1-Dec-14

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
39	0A535	SOL	12 & 80	L1.8 & 14.0	L2.0 & 15.7	2	Truck Scales Relocation	Raines Drain, Suisun Creek, Suisun Slough (303d), Suisun Marsh Wetlands (303d)	Y	62.3	BS	31-Jul-09	1-Jan-11	1-Sep-11	1-May-14
40	0A530	SOL	680/80/12	Various	Various	2	Interchange Improvement	Jameson Creek, Green Valley Creek, Dan Willson Creek, Alonzo Drain, Ledgewood Creek (303d), Suisun Creek	Y	470.0	C	1-Jul-09	1-Jul-13	TBD	1-Apr-14
41	27520	SOL	80	1.9	7.2	2	Lengthening 6 Exit Ramps	Carquinez Strait (303d)	NA	3.5	C	1-Dec-09	1-Jun-11	1-Feb-12	28-Feb-14
42	4A110	SOL	80	30.6	38.4	5	Median Concrete Barrier and Shoulder Widening	None	NA	15.1	E	1-Jul-08	30-Jun-09	1-Jan-11	1-Nov-12

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
43	4C153	SOL	80	15.4	30.6	2 & 5	Resurfacing, Restoration, and Rehabilitation	Ledgewood Creek (303d), Alamo Creek, Suisun Creek, Ulatis Creek, Pine Tree Creek, Horse Creek, Gibson Canyon Creek	Y	9.9	C	1-Jun-09	1-Jun-11	1-Jun-12	1-Feb-14
44	0A020	SON	1	15.1	15.8	2	Gleason Beach Realignment	Scotty Creek, Pacific Ocean	NA	9.5	C	30-Jun-10	31-Dec-11	1-Jan-12	1-Jan-13
45	26404	SON	101	4.0	5.2	2	East Washington IC Improvements	Washington Creek, Lynch Creek, Petaluma River (303d)	Y	5.8	BS, 9	14-Mar-08	16-Jun-10	1-May-11	1-May-13
46	2640C	SON	101	2.2	4.1	2	Highway Reconstruction and Bridge Replacement and Widening	Petaluma River (303d)	Y	34.2	BS, 7	9-Mar-09	8-Mar-10	1-Jun-12	30-Jun-13
47	2640U	SON	101	0.9	3.6	2	MSN B2/B4 - Petaluma Blvd Interchange	Petaluma River (303d)	Y	32.4	BS, 19	5-Jun-09	30-Jul-10	1-Aug-12	1-Aug-15

Table 5-1: District 4 Anticipated Project Development and Construction Schedule

No	EA	Project Location					Project Description ^{1,2}	Water Bodies Within or Adjacent to Project Limits ³	Dredge and Fill Activities (Y/N/NA) ⁴	Disturbed Land Area (acres)	Treatment Control Status Type, Quantity ⁵	Anticipated Project Delivery Schedule		Construction Period	
		Co.	Route	Begin PM	End PM	Regional Board						PA&ED Date	PS&E Date	Start Date	End Date
48	13157	SON	116	28.0	34.8	1	Roadway Rehabilitation with Resurfacing, Widening, and Upgrading Bridge	Jersey Creek, Blucher Creek, Gassage Creek, Laguna de Santa Rosa (303d)	Y	31.0	C	30-Apr-09	1-Sep-12	TBD	TBD
49	3A220	Various	Various	Various	Various	2 & 5	Install Traffic Operations System Equipment	Suisun Marsh Wetlands (303d), Carquinez Strait (303d), Sacramento River (303d), Chabot Creek, Suisun Bay (303d), Napa River (303d)	NA	4.0	E	1-Apr-07	1-Dec-09	1-Sep-12	1-Sep-14

Treatment Control Status Legend	
BMP Device Types:	
BS	Biofiltration Strips and/or Swales
D	Detention Devices
DWFD	Dry Weather Flow Diversion
GSRD	Gross Solids Removal Devices
ID	Infiltration Devices
MF	Media Filters
MCTT	Multi-chambered Treatment Trains
TST	Traction Sand Traps
WB	Wet Basins

Table 5-2 lists planned maintenance activities involving water bodies that may require action by the RWQCB under Section 401 of the Clean Water Act.

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
1	ALA	E/B 80	6.775	2	Remove silt	San Francisco Bay	Spring 2012	Winter 2012
2	ALA	580	5.6 - 5.8	2	Remove silt	Altamont Creek	Summer 2012	Winter 2012
3	ALA	W/B 580	26.23	2	Remove silt	San Lorenzo Creek	Summer 2012	Winter 2012
4	ALA	E/B 580	21.6	2	Remove silt	Dublin Creek	Summer 2012	Winter 2012
5	ALA	W/B 580	21.42	2	Remove silt	Dublin Creek	Summer 2012	Winter 2012
6	ALA	N/B 680	0.77	2	Remove silt	Scott Creek	Spring 2012	Winter 2012
7	ALA	N/B 680	2.121	2	Remove silt	San Francisco Bay	Spring 2012	Winter 2012
8	ALA	N/B 680	2.621	2	Remove silt	San Francisco Bay	Spring 2012	Winter 2012
9	ALA	N/B 680	5.27	2	Remove silt	Mission Creek	Spring 2012	Spring 2012
10	ALA	N/B 680	9	2	Remove silt	Sheridan creek	Spring 2012	Winter 2012
11	ALA	N/B 680	11.7	2	Remove silt	Arroyo de la Laguna	Spring 2012	Winter 2012
12	ALA	N/B 680	15.044	2	Remove silt	Arroyo De La Laguna	Spring 2012	Winter 2012
13	ALA	N/B 680	15.481	2	Remove silt	Arroyo De La Laguna	Spring 2012	Winter 2012
14	ALA	N/B 680	17.1 - 19.3	2	Remove silt	Arroyo De La Laguna	Spring 2012	Winter 2012
15	ALA	S/B 680	14.1	2	Remove silt	Arroyo De La Laguna	Summer 2012	Winter 2012
16	ALA	S/B 680	5.235	2	Remove silt	Mission Creek	Summer 2012	Winter 2012
17	ALA	N/B 880	25.6	2	Remove silt	San Leandro Creek Elmhurst Canal	Summer 2012	Winter 2012
18	ALA	N/B 880	20.8	2	Remove silt	Estudillo Canal	Summer 2012	Winter 2012

⁶ Receiving waters within or adjacent to maintenance activity designated as "303(d) (constituent type)." Activity adjacent to Drinking Water Reservoir or Ground Water Recharge Facilities designated as "DW."

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
19	ALA	N/B 880	23.6	2	Remove tules	San Leandro Creek San Francisco Bay	Summer 2012	Winter 2012
20	ALA	N/B 880	24.7	2	Remove tules	San Leandro Creek	Summer 2012	Winter 2012
21	ALA	N/B 880	25.3	2	Remove tules	San Leandro Creek Elmhurst Canal	Summer 2012	Winter 2012
22	ALA	N/B 880	25.5	2	Remove silt	San Leandro Creek Elmhurst Canal	Summer 2012	Winter 2012
23	ALA	S/B 880	25.4	2	Remove tules	San Leandro Creek Elmhurst Canal	Summer 2012	Winter 2012
24	ALA	S/B 880	25.5	2	Remove tules	San Leandro Creek Elmhurst Canal	Summer 2012	Winter 2012
25	ALA	S/B 880	14.5 - 15.0	2	Remove silt & tules	Alameda Creek	Summer 2012	Winter 2012
26	ALA	S/B 880	3.0 - 3.25	2	Remove silt & tules	San Francisco Bay	Summer 2012	Winter 2012
27	ALA	N/B 880	7.0 - 7.2	2	Remove silt & tules	Arroyo Agua Frio San Francisco Bay	Summer 2012	Winter 2012
28	ALA	N/B 880	8.7 - 9.0	2	Remove silt & tules	San Francisco Bay	Summer 2012	Winter 2012
29	ALA	N/B 880	13.5	2	Remove silt & tules	Alameda Creek	Summer 2012	Winter 2012
30	ALA	E/B 84	3.75 - 4.78	2	Remove silt	San Francisco Bay	Summer 2012	Winter 2012
31	ALA	E/B 84	5.85 - 5.94	2	Remove silt	San Francisco Bay	Summer 2012	Winter 2012
32	ALA	E/B 92	3.42 - 4.3	2	Remove silt	San Francisco Bay	Summer 2012	Winter 2012
33	NAP	128	31.10-34.21	5	Talus slide removal	Lake Berryessa	Year round	
34	NAP	128	9.4-14.52	2	Slide removal	Lake Hennesey	Year round	
35	NAP	29	R6.94-R7.38	2	Ice control, cinders	Napa River	11/01	3/31
36	MRN	1	5-45.25	2	Slide removal	Pacific Ocean, Bollinas Lagoon, Tomaes Bay	Year round	
37	MRN	37	14.49-14.62	2	Ice control, cinders	Petaluma River	11/01	3/31
38	SON	37	0.0-0.28	2	Ice control, cinders	Petaluma River	11/01	3/31
39	SON	1	8.82-58.58	1/2	Slide removal	Pacific Ocean, Bodega Bay	Year round	
40	SON	101	3.23-3.57	1	Ice control, cinders	Petaluma River	11/01	3/31

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
41	SM	92	9.83	2	Remove material from culvert and large ditch	San Francisco Bay	Summer 2012	Winter 2012
42	SM	101	9.54	2	Remove material from large drainage ditch	San Francisco Bay	Summer 2012	Winter 2012
43	SM	1	43.64	2	Remove material from large drainage ditch	Pacific Ocean	Winter 2012	Winter 2012
44	SM	1	4.32	2	Remove silt/tules	Whitehouse Creek	Winter 2012	Winter 2012
45	SM	1	10.4	3	Remove silt/tules	Freedmans Creek	Summer 2012	Winter 2012
46	SM	1	13.2	2	Remove silt/tules	Pacific Ocean	Summer 2012	Winter 2012
47	SM	1	29.69	2	Remove silt/tules	Arroyo Creek	Summer 2012	Winter 2012
48	SM	1	30.82	2	Remove silt/tules	Pacific Ocean	Winter 2012	Winter 2012
49	SM	1	32.09	2	Remove silt/tules	Pacific Ocean	Winter 2012	Winter 2012
50	SM	1	32.7	2	Remove silt/tules	Pacific Ocean	Summer 2012	Winter 2012
51	SM	1	33.04	2	Remove silt/tules	Gassos Creek	Winter 2012	Winter 2012
52	SM	1	35.29	2	Remove silt/tules	Pacific Ocean	Winter 2012	Winter 2012
53	SM	1	37.09	2	Remove silt/tules	Purisima Creek	Winter 2012	Winter 2012
54	SM	1	40.7	2	Remove silt/tules	Pacific Ocean	Winter 2012	Winter 2012
55	SM	1	41.4	2	Remove silt/tules	Pacific Ocean	Winter 2012	Winter 2012
56	SM	35	2.81	2	Clean ditch & remove silt around bear trap	San Lorenzo River	Winter 2012	Spring 2012
57	SM	35	2.86	2	Clean ditch	San Lorenzo River	Winter 2012	Spring 2012
58	SM	35	3.28	2	Clean ditch	San Lorenzo River	Winter 2012	Spring 2012
59	SM	35	3.56	2	Riprap	San Lorenzo River	Winter 2012	Spring 2012
60	SM	35	6	2	Clean ditch	Peters Creek Alpine Creek	Winter 2012	Spring 2012

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
61	SM	35	7.55	2	Clean ditch	Alpine Creek La Honda Creek	Winter 2012	Spring 2012
62	SM	35	10.49	2	Clean ditch	La Honda Creek	Winter 2012	Spring 2012
63	SM	35	13.84	2	Clean ditch	La Honda Creek	Winter 2012	Spring 2012
64	SM	35	15.48	2	Clean ditch	Bear Gulch Creek	Winter 2012	Spring 2012
65	SM	35	16.11	2	Clean ditch	Bear Gulch Creek	Winter 2012	Spring 2012
66	SM	84	12.97	2	Clean ditch	La Honda Creek	Winter 2012	Spring 2012
67	SM	84	13.3	2	Clean ditch	La Honda Creek	Winter 2012	Spring 2012
68	SM	84	13.84	2	Clean ditch	La Honda Creek	Winter 2012	Spring 2012
69	SM	101	20.6	2	Remove silt	San Bruno Canal	Summer 2012	Winter 2012
70	SM	101	22.7	2	Remove tree/tules	San Francisco Bay	Summer 2012	Winter 2012
71	SM	101	26.1	2	Remove silt	San Francisco Bay	Summer 2012	Winter 2012
72	SCL	9	9.5-10.5	2	Remove silt/trees	San Lorenzo River	Winter 2012	Spring 2012
73	SCL	17	0.2	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
74	SCL	17	0.3	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
75	SCL	17	1.9	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
76	SCL	17	2	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
77	SCL	17	2.5	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
78	SCL	17	3.1	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
79	SCL	17	3.3	2	Remove silt around bear trap	Lexington Reservoir	Winter 2012	Spring 2012
80	SCL	101	40	2	Remove silt	Guadalupe River	Winter 2012	Winter 2012
81	SCL	237	2.3	2	Remove cattails	San Francisco Bay	Winter 2012	Winter 2012

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
82	SCL	680	8.3	2	Remove silt	Tularcitos Creek	Winter 2012	Spring 2012
83	SCL	25	0.0-1.0	3	Remove silt	Carnadero Creek	Winter 2012	Winter 2012
84	SCL	25	1.5-2.2	3	Remove silt	Carnadero Creek	Winter 2012	Winter 2012
85	SCL	101	0.0-1.2	3	Remove silt	Pajaro River (303d)	Winter 2012	Winter 2012
86	SCL	152	12.3	3	Remove silt	Dexter Creek	Winter 2012	Winter 2012
87	SCL	152	12.5-13.2	3	Remove silt	Johnson Creek	Winter 2012	Winter 2012
88	SCL	152	13.8	3	Remove silt	Jones Creek	Winter 2012	Winter 2012
89	SCL	152	14.8	3	Remove silt	Llagas Creek	Winter 2012	Winter 2012
90	SCL	152	16.31	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
91	SCL	152	16.44	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
92	SCL	152	16.54	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
93	SCL	152	16.58	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
94	SCL	152	16.78	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
95	SCL	152	16.83	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
96	SCL	152	16.9	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
97	SCL	152	17.1	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
98	SCL	152	17.33	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
99	SCL	152	17.42	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
100	SCL	152	17.47	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
101	SCL	152	17.91	3	Remove silt	Pajaro River	Winter 2012	Winter 2012
102	SCL	152	18	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012
103	SCL	152	18.3	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012

Table 5-2: District 4 Anticipated Maintenance Activities and Other Management Practices

Significant Road Maintenance Activities								
No.	Co.	Route	PM	Regional Board	Description	Water Bodies Affected ⁶	Start Date	Completion Date
104	SCL	152	19.6	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012
105	SCL	152	24.08	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012
106	SCL	152	24.3	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012
107	SCL	152	24.65	3	Remove silt	Pacheco Creek	Winter 2012	Winter 2012
108	SCL	156	0.0-0.5	3	Remove silt	Pacheco Creek	Spring 2012	Summer 2012

Table 5-3 lists the District's planned general program management practices, such as monitoring activities, public education and participation, municipal coordination, including any cooperative agreements that may be in effect with local agencies.

Table 5-3: District 4 General Management Practices

Monitoring Activities
<p>The following site has been identified for monitoring in the District:</p> <ul style="list-style-type: none"> • RWQCB #2: <ul style="list-style-type: none"> ○ Alameda County, Route 80, San Francisco/Oakland Bay Bridge Toll Plaza – Monitoring of the performance of the pilot bioretention facilities for the next three years.
Public Education and Participation
<p>The District Plans to:</p> <ul style="list-style-type: none"> • Continue to combat litter in conjunction with our Public Information Office, Adopt-A-Highway, California Highway Patrol (CHP) Offices, and Office of Safety Departments by supplying "Don't Trash California" stormwater literature for their offices and events, for distribution to the public. • Continue to participate in the Caltrans/CHP Quarterly Cleanups and make an enhanced effort to sweep and pick up trash under CHP enforcement. Additional advertising options will be identified to broadcast the "Don't Trash California" message, such as Overhead Changeable Message Signs. • Continue to assess the status of Drainage Inlet Markers, and replace them as needed. • The District will continue to loan the two 30-second Public Service Announcements of "Don't Trash California" in English and Spanish to cities' Local Cable Access channels for airing. In addition, now that it's available in DVD format, make it available to smaller groups. • The District may staff a booth to distribute literature and promotional material at events such as "BART's Blue Sky Festival," "Coastal Cleanup Day," "State Agency Fairs," the "San Francisco Street Fair," the "Oakland Earth Expo," the "Keep California Beautiful Conference," "Great American Litter Pickup Day," "Truck Driver's Appreciation Day," and other events. We will continue to work with various school districts to distribute our stormwater educational materials.

Table 5-3: District 4 General Management Practices

Municipal Coordination						
<p>The District plans to:</p> <ul style="list-style-type: none"> Continue to attend the Municipal Separate Storm Sewer System (MS4)/ NPDES meetings during the reporting period with other permitted municipalities: the Alameda County Clean Water Program (ACCWP); Contra Costa Clean Water Program (CCCWP); Marin County Stormwater Pollution Prevention Program (MCSTOPPP); San Mateo Countywide Water Pollution Prevention Program (SMCWPPP); Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP); Santa Rosa Area NPDES; and the Marin, Napa, Solano, and Sonoma Stormwater Agencies (MNISSA). The members of these organizations are responsible for complying with the requirements of MS4/NPDES permits issued by the San Francisco Bay RWQCB. Notify the municipalities, via written correspondence, of any illicit discharges or connections discovered within Caltrans' right-of-way and associated with a municipality's jurisdiction. This includes immediately reporting this information to the RWQCB, if appropriate. Discuss and participate in any possible public outreach programs opportunities that are sponsored by the municipalities. Continue to attend TMDL meetings and workshops as needed to gain information relative to Caltrans and coordinate as necessary on TMDLs where Caltrans has been identified as a stakeholder. Seek opportunities to collaborate with the MS4 permittees to increase public education efforts within the District. Support and work with the Bay Area Stormwater Management Agencies Association (BASMAA), and the California Stormwater Quality Association (CASQA). Attend meetings and workshops pertaining to Areas of Special Biological Significance (ASBS) where Caltrans has identified discharges for ASBS sites within the District. Make some of our District stormwater training courses available to local agencies, and attending the training opportunities and presentations by local agencies. 						
The District has several cooperative agreements in effect with local agencies, including:						
County	Route	Begin PM	End PM	Regional Board	Local Agency	Purpose of Agreement
ALA	Highway 84 - Pigeon Pass	20.7	23.0	2	City of Dublin	Offsite Treatment BMP within the City jurisdiction
SON	Highway 101 HOV lanes (Central Project), north of Pepper Road in Petaluma to Rohnert Park Expressway in Rohnert Park	9.5	13.9	1	County of Sonoma	Off-site Treatment BMPs to fulfill stormwater treatment and hydro-modification control obligations as required
SON	Highway 101 HOV lanes (Central Project), north of Pepper Road in Petaluma to Rohnert Park Expressway in Rohnert Park	9.5	13.9	1	City of Santa Rosa	Off-site Treatment BMPs to fulfill stormwater treatment and hydro-modification control obligations as required
SON	Highway 101 HOV lanes (Central Project), north of Pepper Road in Petaluma to Rohnert Park Expressway in Rohnert Park	9.5	13.9	1	Sonoma County Permit and Resource Management Department	Off-site Treatment BMPs to fulfill stormwater treatment and hydro-modification control obligations as required

6 Total Maximum Daily Loads

Chapter 6 of the DWP describes and identifies the total maximum daily loads (TMDLs) for which the District has been identified as a stakeholder. A summary of planned District projects and participation efforts for TMDL compliance is provided. This information may include a general discussion of the load allocation assessment, approach, or strategy for achieving allocations under an Implementation Plan, and the coordination of activities with other stakeholders during the next fiscal year.

For each TMDL, the District develops a plan to conduct activities that will achieve TMDL compliance objectives. The activities may include designing or constructing structural BMPs, depending on the pollutant and level of mitigation required by the TMDL, or non-structural controls, such as maintenance activities, municipal coordination, and partnerships. The District strives to meet TMDL compliance objectives as it continues to work with the RWQCB to achieve the maximum feasible pollutant reduction.

Table 6-1 lists TMDL compliance activities for each TMDL in District 4 for which Caltrans has been assigned a Waste Load Allocation (WLA), an implementation plan has been approved, and has a compliance deadline.

For each TMDL listed in the table, the following is indicated:

- RWQCB
- Water Body Name
- Pollutant
- Load Reduction Implementation Date – the timeframe to achieve load reduction goals
- Monitoring – compliance alternatives for implementing mitigation measures to comply with the TMDL, including, if known, a time frame for development of the compliance alternatives
- TMDL Municipal/Stakeholder Coordination – Coordination with municipalities and local stakeholders on how to meet load reduction goals
- Planned Actions – specific activities the District intends to conduct during the fiscal year to comply with the TMDL by the deadline

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Table 6-1: District 4 TMDL Activities

District	Regional Board	TMDL Name	Effective Date	District Specific Implementation Activities	Compliance Date (if applicable)	Monitoring	TMDL Municipal/ Stakeholder Coordination	Planned Actions
1, 2 & 4	1	TMDL Implementation Policy for Sediment Impaired Waters	11/29/2004	Prevent, minimize where possible, otherwise compensate	ongoing	-	pending	Continue implementing SWMP; Work with RB to find watershed specific solutions; RB will revise SWMP
4	2	San Francisco Mercury TMDL	2/11/2008	Achieve 50% WLA (Interim target)	2/8/2018	The concentrations of mercury and methyl mercury in the discharge must be monitored.	Caltrans District 4 has prepared a draft workplan to outline an approach toward compliance. Municipal coordination is recommended in the draft TMDL work plan dated 11-18-2008. District 4 met with the Regional Board in February 2010 to discuss methods of compliance toward this TMDL.	District 4 is initializing a monitoring request to look at sources of mercury within the right of way. District 4 has list of Treatment BMPs within the watershed, constructed after the baseline for the TMDL.
				Achieve 100% WLA (Final Target)	2/6/2028	-	-	-

District	Regional Board	TMDL Name	Effective Date	District Specific Implementation Activities	Compliance Date (if applicable)	Monitoring	TMDL Municipal/ Stakeholder Coordination	Planned Actions
4	2	Richardson Bay Pathogens TMDL	12/18/2009	Implement applicable stormwater management plan (the date to be specified in SWMP and NPDES permit)	12/17/2010	RB is not requiring additional monitoring	No municipal coordination is required at this time.	Caltrans District 4 is implementing the current requirements of the SWMP and NPDES permit. District 4 may initialize a monitoring request.
				Update/amend applicable SWMP, as appropriate, to include specific measures to reduce pathogen loading, including additional education and outreach efforts, and installation of additional pet waste receptacles (as specified in permit)	12/17/2010	RB is not requiring additional monitoring	No municipal coordination is required at this time.	Continue implementing permit and SWMP.
				Report progress on implementation of pathogen reduction measures to Water Board (as specified in permit)	12/17/2011	RB is not requiring additional monitoring	No municipal coordination is required at this time.	Continue implementing permit and SWMP.
4	2	San Francisco PCBs TMDL	3/29/2010	Implement pilot scale control measures	3/28/2015	Determine Caltrans concentrations of PCBs in runoff	Cleanup of hotspots on land and treatment of highly contaminated runoff	Caltrans District 4 is implementing the current requirements of the SWMP and NPDES permit. District 4 is planning in initializing a monitoring request to look at sources of PCBs within the right of way.
				Achieve 100% WLA (Final Target)	3/28/2030	-	-	-

District	Regional Board	TMDL Name	Effective Date	District Specific Implementation Activities	Compliance Date (if applicable)	Monitoring	TMDL Municipal/ Stakeholder Coordination	Planned Actions
4	2	Napa Sediment/ Sedimentation TMDL	9/1/2010	Submit Report of Waste Discharge to Water Board	9/2/2015	No monitoring required	No municipal coordination is required	Caltrans District 4 is implementing the current requirements of the SWMP and NPDES permit.
				Adopt and implement BMPs for maintenance of roads	10/1/2014	-	-	-
4	2	Sonoma Sediment/ Sedimentation TMDL	12/1/2010	Submit Report of Waste Discharge to Water Board	6/1/2014	No monitoring is required at this time	No municipal coordination is required at this time	Caltrans District 4 is implementing the current requirements of the SWMP and NPDES permit.
				Adopt and implement BMPs for maintenance of roads	9/2/2014	-	-	-
4	2	Guadalupe River Mercury TMDL	6/1/2010	Submit coordinated watershed monitoring plan to Executive Officer	5/31/2011	-	-	-
				Participate in a coordinated watershed monitoring program	5/31/2011	-	-	-
				Review new information and amend TMDL, if necessary (Regional Board task)	5/29/2017	-	-	-
				Complete special studies	12/31/2017	-	-	-
				Participate in special study 3b (optional)	12/31/2021	-	-	-
				Final targets to be attained	12/31/2028	-	-	-

District	Regional Board	TMDL Name	Effective Date	District Specific Implementation Activities	Compliance Date (if applicable)	Monitoring	TMDL Municipal/ Stakeholder Coordination	Planned Actions
4	2	San Francisco Urban Creeks Diazinon and Pesticides TMDL	6/1/2010	Implement control measures to reduce pesticides in runoff to the maximum extent practicable (reduce reliance on pesticides, track progress, train employees and require contractors to use integrated pest management techniques, and study the effectiveness of control measures implemented, target attainment, and future actions)	6/1/2015	Determine Caltrans concentrations of diazinon in runoff.	-	Recommended-Source Control /Public Education